



technical data

FTK/FTX(D)-JA/H/J



**Wall Mounted
Inverter Controlled Unit**

air conditioning systems

Split
Sky Air

Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice

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FTK/FTX(D)-JA/H/J

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For capacity tables, please refer to part II: outdoor units

Note: R-22 cooling only models, which are produced after 01/07/2002, cannot be sold inside countries that follow the European Regulation n°2037/2000 EE of 29/09/2000.



1 Features

1

- Lightweight and compact
- Extremely quiet in operation both indoors and outdoors
- A silent button on the remote control lowers the operation sound of the outdoor unit (RXD-J) by 3dB(A)
- The movement sensor saves power consumption in unoccupied rooms (FTK/FTX-JA)
- A comfortable sleeping mode pledges you a good night's rest (FTK/FTX-JA)
- The home leave operation saves energy during absence. (FTXD-J)
- Automatic air flow director ensures uniform air flow and temperature distribution:
 - The indoor units are equipped with a double horizontal flap for air discharge
 - The indoor units FTK/FTX50-60 are equipped with an extra automatic vertical air flow director
- Powerful mode can be selected for rapid cooling or heating
- Air purification filter
 - deodorises the air
 - helps to prevent bacterial and viral propagation
- Washable front panel
- Up to 4 indoor units can be connected to 1 Multi outdoor unit. All indoor units are individually controllable with remote control and do not need to be installed in the same room. They operate simultaneously within the same cooling or heating mode.
- The remote control has a 24 hour timer
- The indoor model also has a start/stop button mounted on the front panel
- Up to 5 indoor units can be operated from a single centralised control
- Purpose-designed holder provided for your remote control (FTK/FTX)

- **Inverter control**

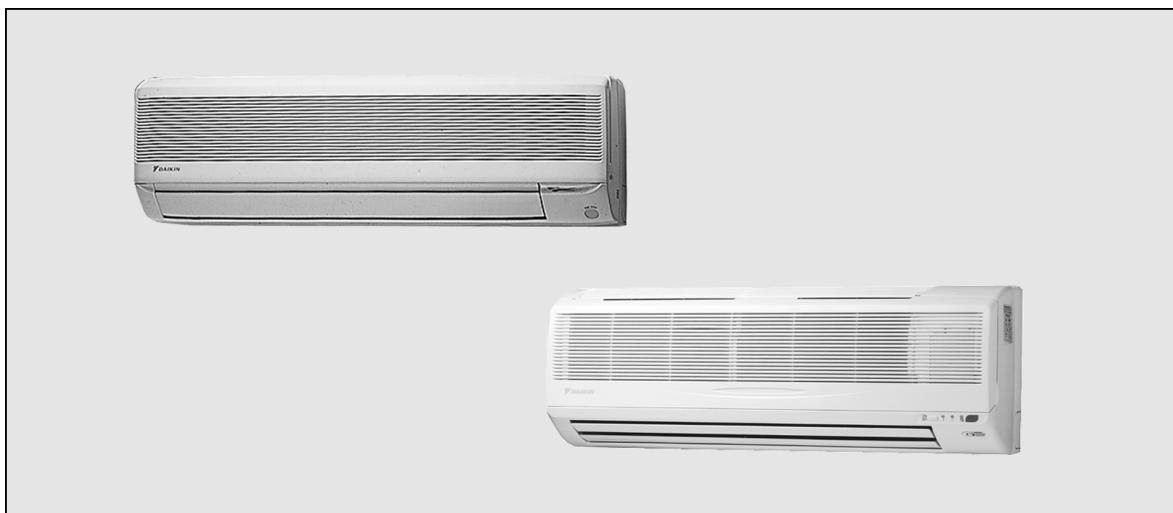
The use of an integrated inverter control ensures maximum comfort and efficiency.

- **Short start-up cycle**

Inverter control enables the required room temperature to be achieved quicker than with non inverter units, in fact, start-up time is reduced by one third.

- **30% less power consumption**

The inverter controller detects changes in room or outdoor conditions and adjusts the indoor temperature to compensate within seconds. Rapid response reduces power consumption to 30% lower than that of non-inverter systems.



Standard



24



Night mode



FTK/FTX



Optional



Inverter control



Silent mode



Sleep mode



FTK/X-JA



FTX(D)



FTX-H



FTK



FTXD



2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT

For indoor units only:

INDOOR UNITS		FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
NOMINAL INPUT	Cooling	kW	0.04	0.04	0.05

For combination indoor units + outdoor units:

INDOOR UNITS			FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB	
OUTDOOR UNITS			RK25JV1NB	RK35JV1NB	-	-	
NOMINAL CAPACITY (2-3)			Cooling (1) min.-nom.-max.	kW 1.30~2.50~3.00	1.40~3.54~3.80	For capacities and power input in multi model application, see chapter MK-H	
NOMINAL INPUT			Cooling min.-nom.-max.	kW 0.43~0.945~1.250	0.47~1.345~1.72		

TECHNICAL SPECIFICATIONS

INDOOR UNITS		FTK25JAV1NB		FTK35JAV1NB		FTK50HV1NB		FTK60HV1NB			
DIMENSIONS	Unit	H	mm	273	273	298	298	298	298		
		W	mm	784	784	1,050	1,050	1,050	1,050		
		D	mm	185	185	190	190	190	190		
WEIGHT	Unit	kg		7.5	7.5	12	12	12	12		
COLOUR	Unit		Almond white								
SOUND LEVEL	Sound pressure (4)	high	dBA	38	39	44	44	46	46		
		medium	dBA	32	33	39	39	42	42		
		low	dBA	26	27	35	35	38	38		
	Sound power (5)		dBA	54	55	60	60	62	62		
FAN	Air flow rate	high	m ³ /min	7.1	7.4	12.9	12.9	14	14		
		medium	m ³ /min	5.9	6	11.2	11.2	12.1	12.1		
		low	m ³ /min	4.6	4.7	9.4	9.4	10.3	10.3		
	Speed	steps		5 steps and auto							
		high	rpm	1,260	1,300	1,240	1,240	1,320	1,320		
		medium	rpm	1,075	1,100	1,120	1,120	1,180	1,180		
		low	rpm	890	900	1,000	1,000	1,040	1,040		
	Type		Cross flow fan								
	Qty x model			1 x 18F-22	1 x 18F-22	1 x D40A-05 (DC-Motor)	1 x D40A-05 (DC-Motor)				
	Qty x motor output		W	1 x 18	1 x 18	1 x 35	1 x 35				
	HEAT EXCHANGER		Type	Φ 7 Hi-XA tube							
	AIR FILTER		Rows x stages x fin pitch	mm	2 x 12 x 1.4	2 x 12 x 1.4	2 x 14 x 1.2	2 x 14 x 1.2			
AIR DIRECTION CONTROL											
TEMPERATURE CONTROL											
PIPING CONNECTIONS		liquid	mm	Φ 6.4	Φ 6.4	Φ 6.4	Φ 6.4	Φ 6.4	Φ 6.4		
		gas	mm	Φ 9.5	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.9	Φ 15.9		
		drain	mm	Φ 18.0	Φ 18.0	Φ 18.0	Φ 18.0	Φ 18.0	Φ 18.0		
INSULATION MATERIAL	Heat insulation tape			Both liquid and gas pipes							

For outdoor units	Pair application	See chapter RK-J
	Multi model application	See chapter MK-H

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3D013616B



2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT

For indoor units only:

INDOOR UNITS		FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
NOMINAL INPUT	Cooling	kW	0.04	0.04	0.04	0.05
	Heating	kW	0.04	0.04	0.038	0.045

For combination indoor units + outdoor units:

INDOOR UNITS			FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
OUTDOOR UNITS			RX25JV1NB	RX35JV1NB	RXD50JV1B	RXD60JV1B	RXD71JV1B
NOMINAL CAPACITY (3-4)	Cooling (1)	min.-nom.-max.	kW	1.30~2.50~3.00	1.40~3.43~3.80	0.90~5.20~5.80	0.90~6.20~7.00
	Heating (2)	min.-nom.-max.	kW	1.30~3.40~4.00	1.40~4.10~5.10	0.90~6.50~8.00	0.90~7.20~8.50
NOMINAL INPUT	Cooling	min.-nom.-max.	kW	0.35~0.98~1.35	0.50~1.43~1.72	0.45~1.73~2.30	0.45~2.21~2.90
	Heating	min.-nom.-max.	kW	0.35~1.130~1.350	0.405~1.375~1.90	0.45~1.91~2.80	0.45~2.12~3.30

TECHNICAL SPECIFICATIONS

INDOOR UNITS			FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B							
DIMENSIONS	Unit	H	mm	273	273	298	298							
		W	mm	784	784	1,050	1,050							
		D	mm	185	185	190	190							
WEIGHT	Unit	kg	7.5	7.5	12	12	12							
COLOUR	Unit	Almond white												
SOUND LEVEL	Sound pressure (cooling/heating) (5)	high	dBA	38/38	39/39	44/42	45/44							
		medium	dBA	32/32	33/33	40/37	41/39							
		low	dBA	26/26	27/27	35/32	37/34							
	Sound power (Horizontally located scroll type) (6)	dBA	54/54	55/55	60/58	61/60	62/62							
FAN	Air flow rate	high	m ³ /min	7.1/8.4	7.4/8.4	12.3/14.9	13.0/16.5							
		medium	m ³ /min	5.9/7.0	6.0/7.1	10.7/12.8	11.5/13.7							
		low	m ³ /min	4.6/5.7	4.7/5.9	9.1/10.5	9.9/11.1							
	Speed	steps			5 steps and auto									
		high	rpm	1,260/1,300	1,300/1,300	1,320/1,280	1,380/1,380							
		medium	rpm	1,075/1,125	1,100/1,130	1,170/1,120	1,240/1,190							
		low	rpm	890/950	900/970	1,020/960	1,100/1,000							
	Type	Cross flow fan												
	Qty x model			1 x 18F-22	1 x 18F-22	1 x D54A-31 (DC-Motor)	1 x D54A-31 (DC-Motor)							
	Qty x motor output	W		1 x 18	1 x 18	1 x 54	1 x 54							
	Type	Ø 7 Hi-XA tube												
HEAT EXCHANGER	Rows x stages x fin pitch	mm	2 x 12 x 1.4	2 x 12 x 1.4	2 x 14 x 1.2	2 x 14 x 1.2	2 x 14 x 1.2							
	Removable/washable/mildew proof													
AIR FILTER														
AIR DIRECTION CONTROL														
TEMPERATURE CONTROL														
PIPING CONNECTIONS		liquid	mm	Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4							
		gas	mm	Ø 9.5	Ø 12.7	Ø 12.7	Ø 15.9							
		drain	mm	Ø 18	Ø 18	Ø 18	Ø 18							
INSULATION MATERIAL	Heat insulation tape	Both liquid and gas pipes												
For outdoor units	Pair application	See chapter RX(D)-J												
	Multi model application	See chapter MX-H												

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3D029183/4/5



2 Specifications

ELECTRICAL SPECIFICATIONS

For indoor units only:			FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
CURRENT	Nominal running current	cooling A	0.18	0.18	0.5	0.6
	Maximum running current	cooling A		See chapter RK-J: Electrical data		
For combination indoor units + outdoor units:			FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
		RK25JV1NB	RK35JV1NB	-	-	
Nominal running current	cooling A	4.5	6.3	For capacities and power input in multi model application, see chapter MK-H		
CURRENT	Maximum running current	cooling A				See chapter RK-J: Electrical data
	Starting current	cooling A			See chapter RK-J: Electrical data	
For indoor units only:			FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
POWER SUPPLY			V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~	1~	1~	1~
	Frequency	Hz	50	50	50	50
	Voltage	V	230	230	230	230

ELECTRICAL SPECIFICATIONS

For indoor units only:			FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B	
CURRENT	Nominal running current	cooling A	0.18	0.18	0.18	0.2	0.22	
		heating A	0.18	0.18	0.17	0.2	0.22	
	Maximum running current				See chapter RX(D)-J: Electrical data			
	cooling A							
For combination indoor units + outdoor units:			FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B	
			RX25JV1NB	RX35JV1NB	RXD50JV1B	RXD60JV1B	RXD71JV1B	
			4.8	6.4	7.6	9.7	11.5	
			5.3	6.2	8.4	9.3	12	
				See chapter RX(D)-J: Electrical data				
CURRENT	Nominal running current	cooling A			See chapter RX(D)-J: Electrical data			
		heating A						
	Maximum running current	cooling A						
		heating A						
CURRENT	Starting current	cooling A	5.3	6.4				
		heating A	5.3	6.4				
For indoor units only:			FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B	
POWER SUPPLY			V1	V1	V1	V1	V1	
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~	1~	1~	1~	1~	
	Frequency	Hz	50	50	50	50	50	
	Voltage	V	230	230	230	230	230	

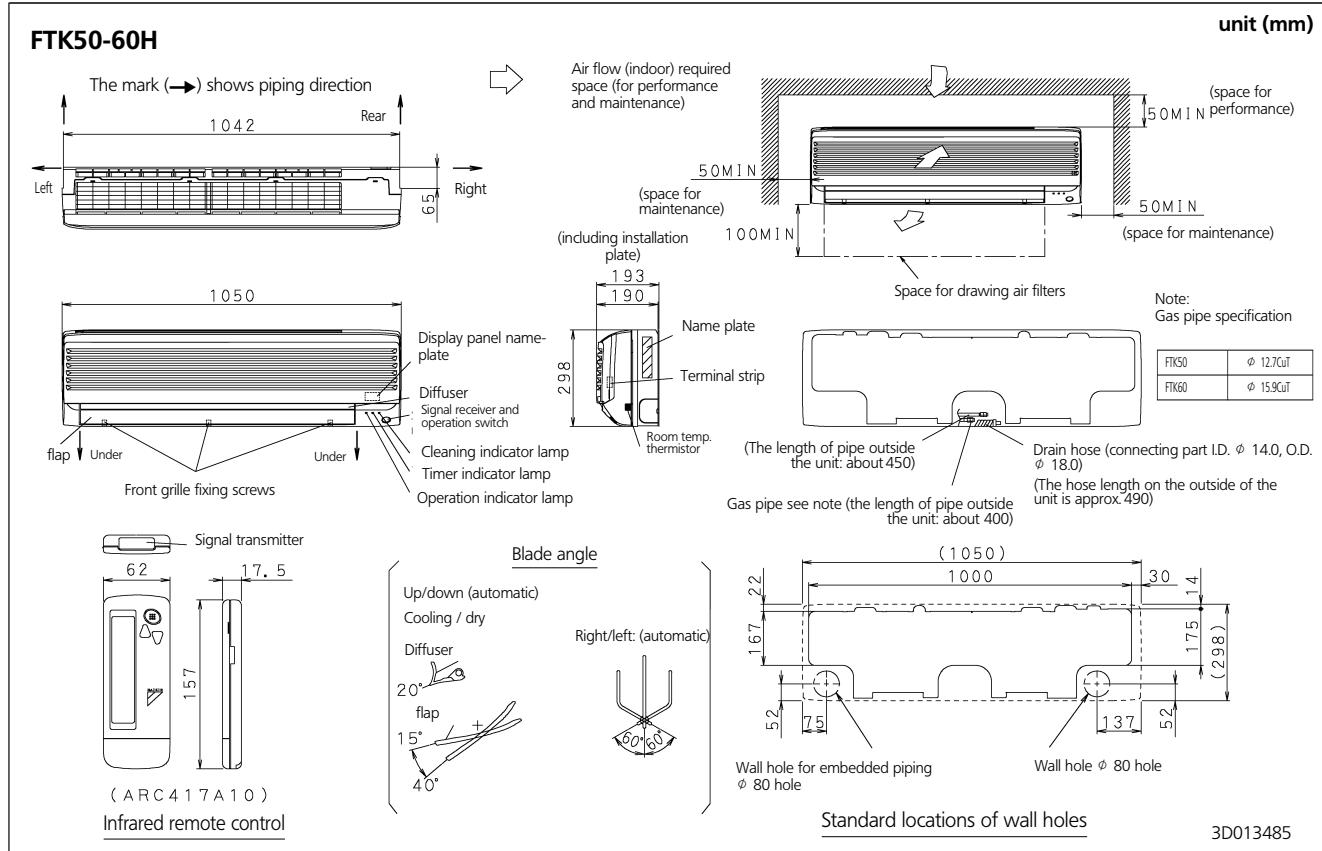
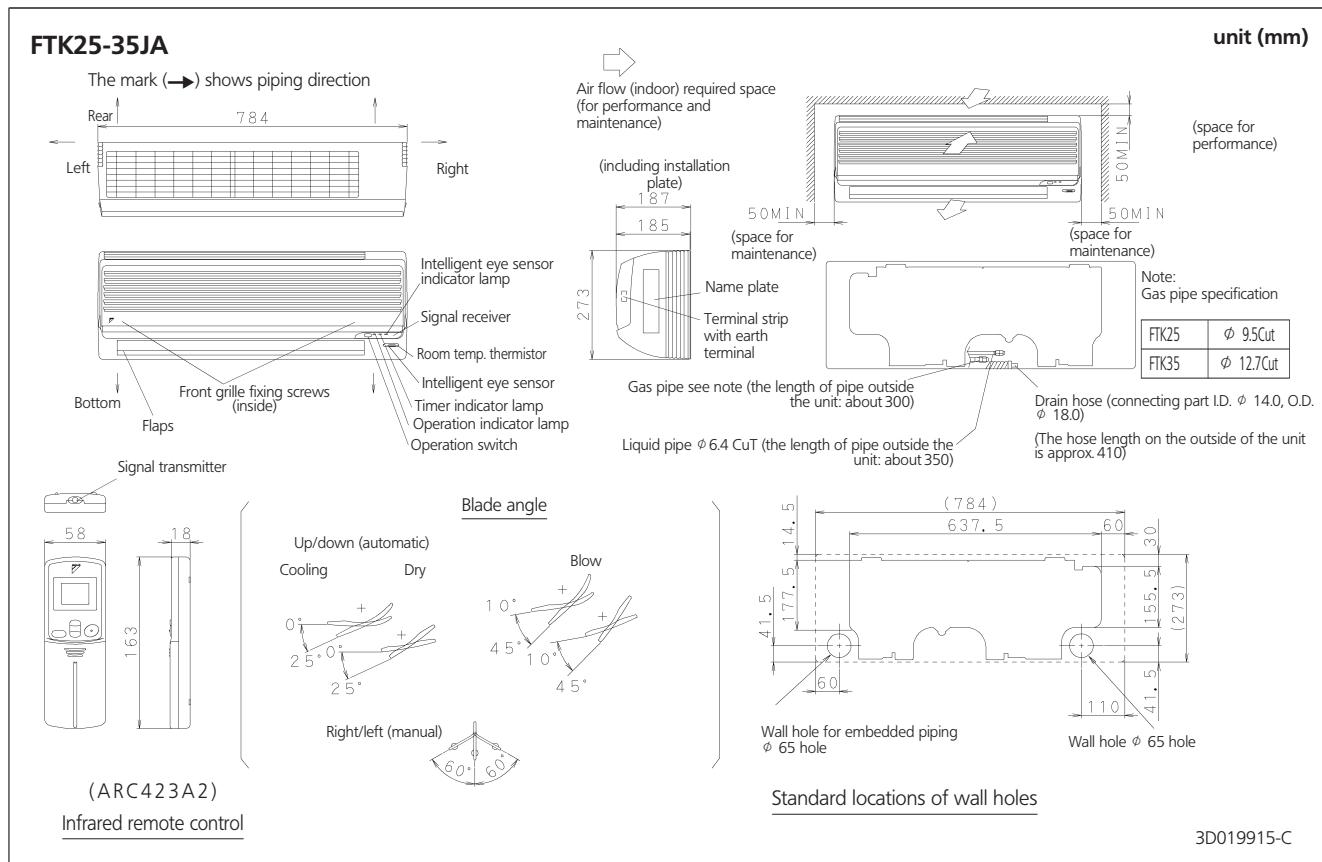
NOTES

- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m (horizontal) * level difference: 0m.
- 2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- 3 Units should be selected on nominal capacity. Maximum capacity is limited to peak periods.
- 4 The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 6 of this chapter.
- 5 The sound power level is an absolute value indicating the "power" which a sound source generates.



3 Dimensional drawings

3



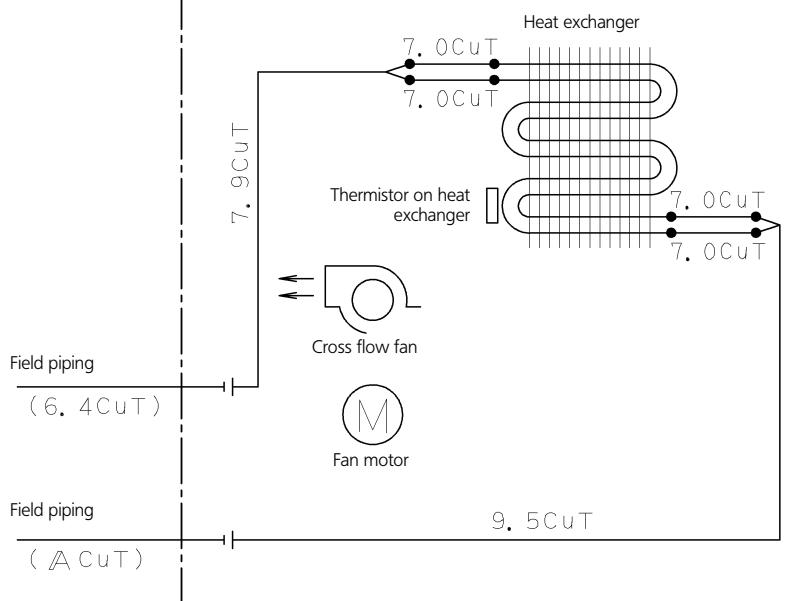


4 Piping diagrams

4

**FTK25-35JA
FTX25-35JA**

Indoor unit

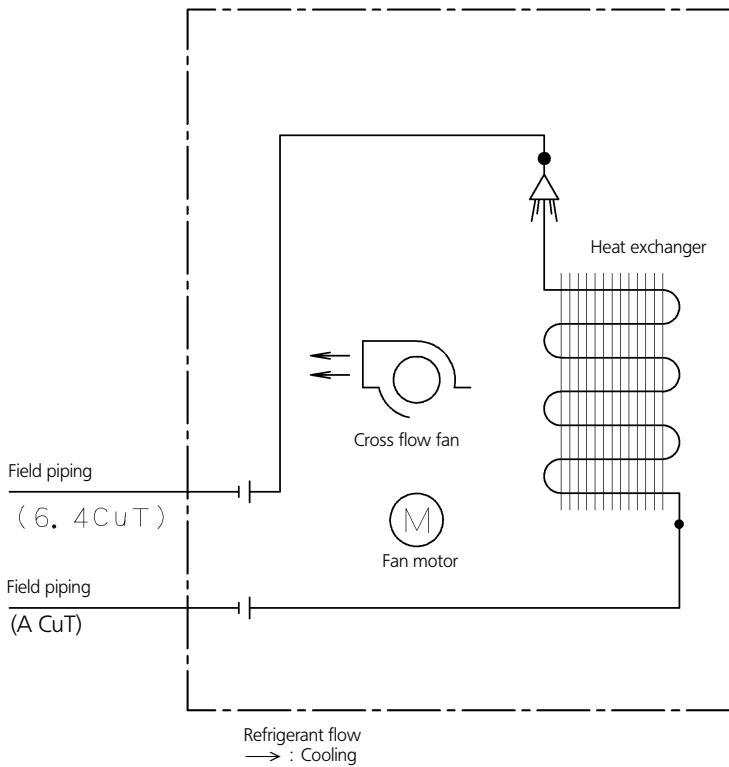


	A
FTK25- FTX25-	9.5
FTX35- FTX35	12.7

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FTK50-60H

Indoor unit



Note:

1. Gas pipe specification

	A
FTK50	12.7
FTK60	15.9

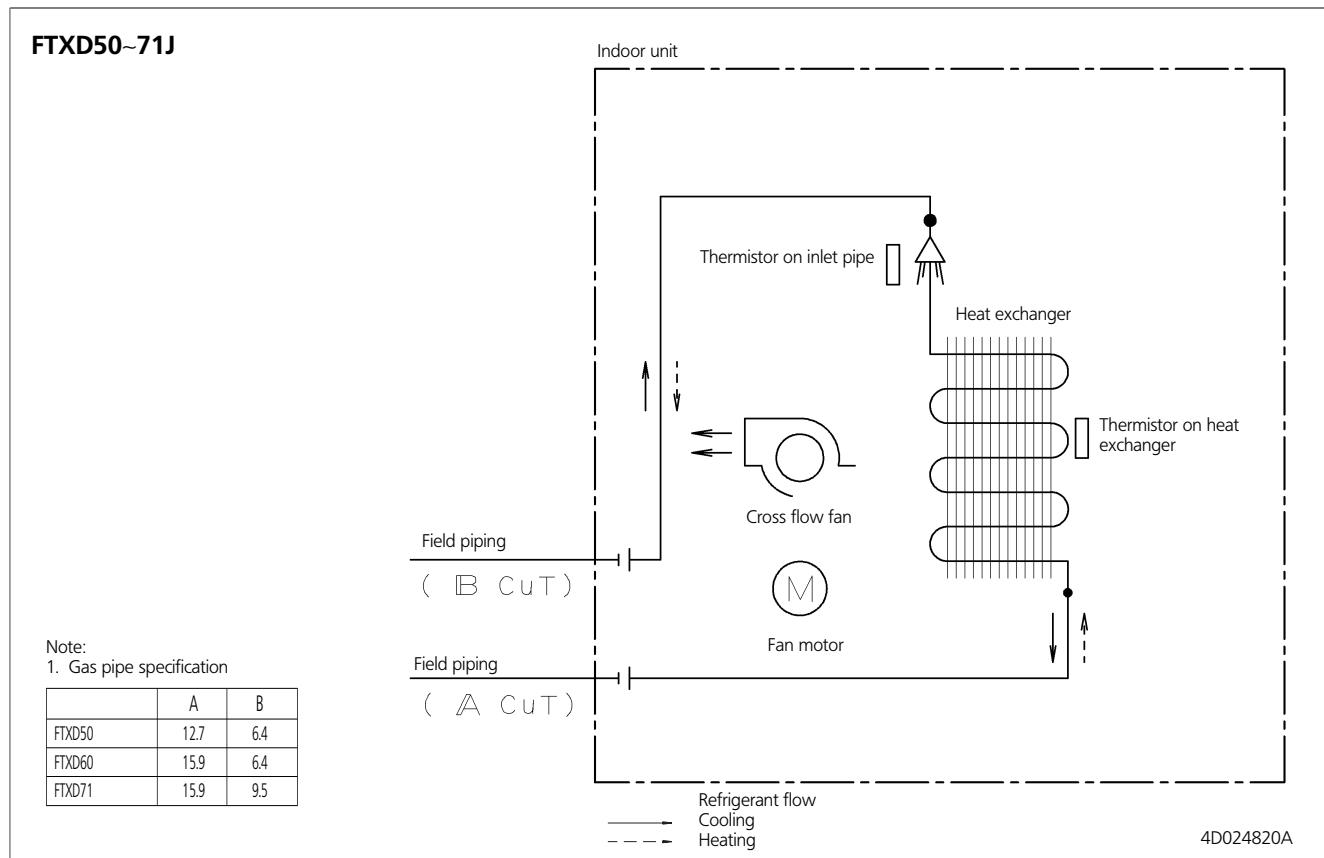
Refrigerant flow
→ : Cooling

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4 Piping diagrams

4

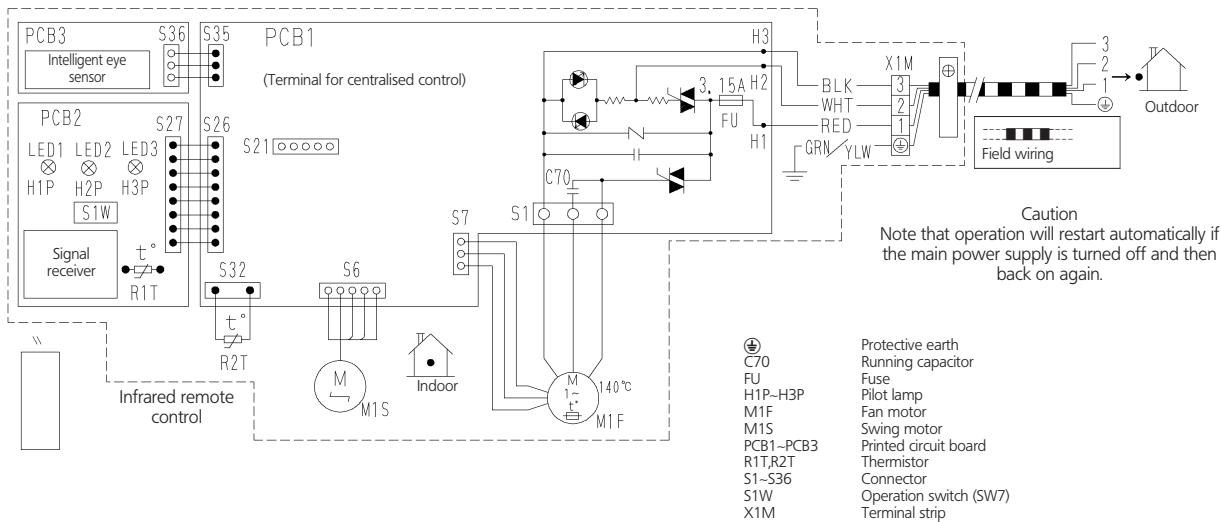




5 Wiring diagrams

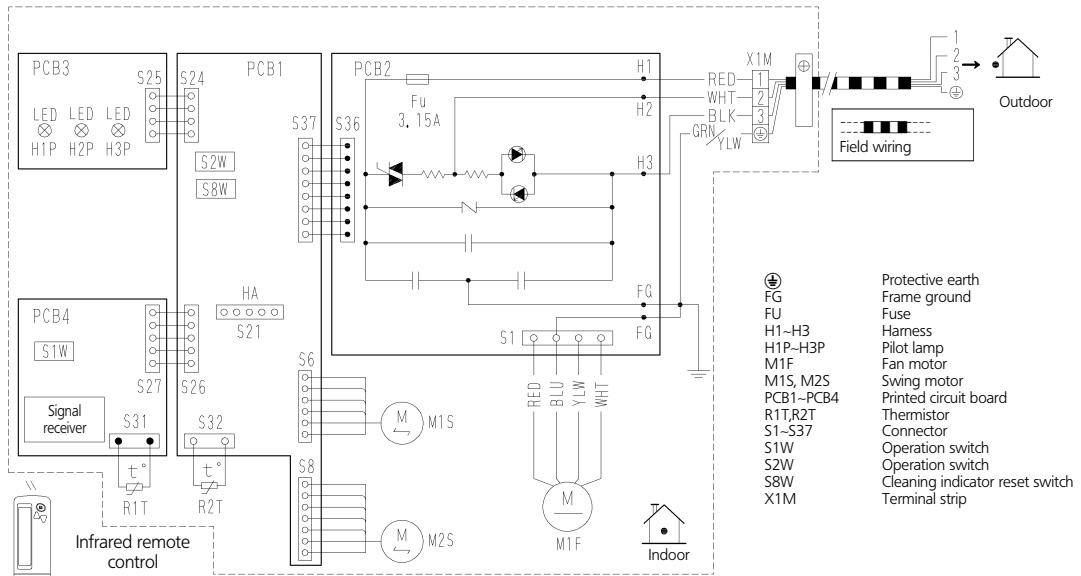
FTK25-35JA

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FTK50-60H

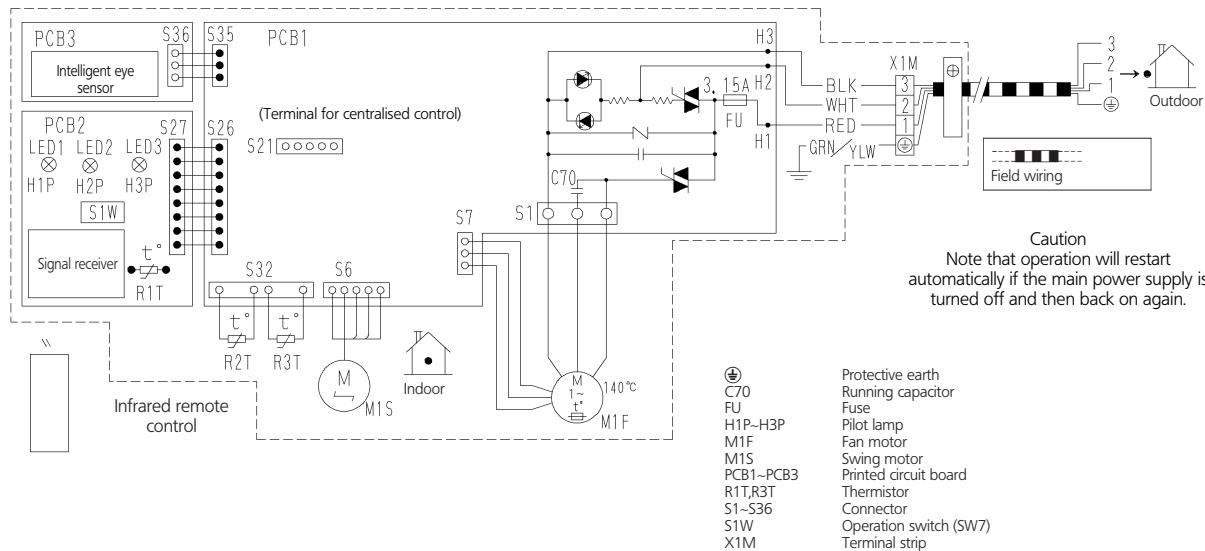


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5 Wiring diagrams

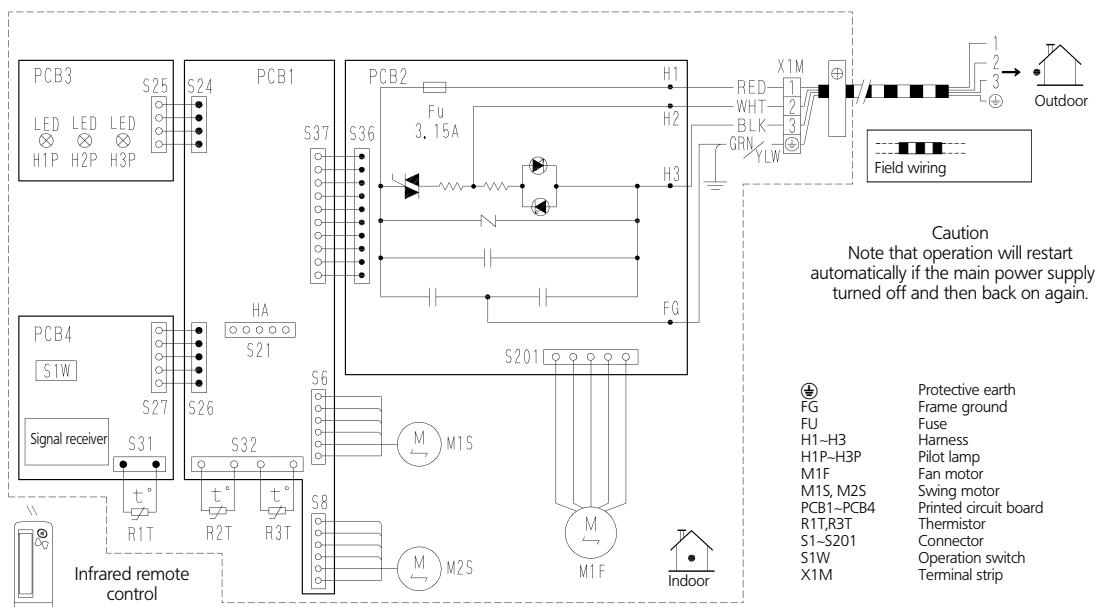


FTX25-35JA



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FTXD50~71J



3D025027



6 Sound level

6-1 Sound level data

6
6-1

Cooling only

Model	Sound pressure level			Measuring location Indoor unit Location of microphone Center	Sound power level (H)		
	230V		50Hz				
	H	L					
FTK25JAV1NB	38	26			54		
FTK35JAV1NB	39	27			55		
FTK50HV1NB	44	35			60		
FTK60HV1NB	46	38			62		

Heating only

Model	Sound pressure level			Measuring location Indoor unit Location of microphone Center	Sound power level (H) (cooling/heating)		
	230V		50Hz				
	H (cooling/heating)	L (cooling/heating)					
FTX25JAV1NB	38/38	26/26			54/54		
FTX35JAV1NB	39/39	27/27			55/55		
FTXD50JV1B	44/42	35/32			60/58		
FTXD60JV1B	45/44	37/34			61/60		
FTXD71JV1B	46/46	37/34			62/62		



6 Sound level

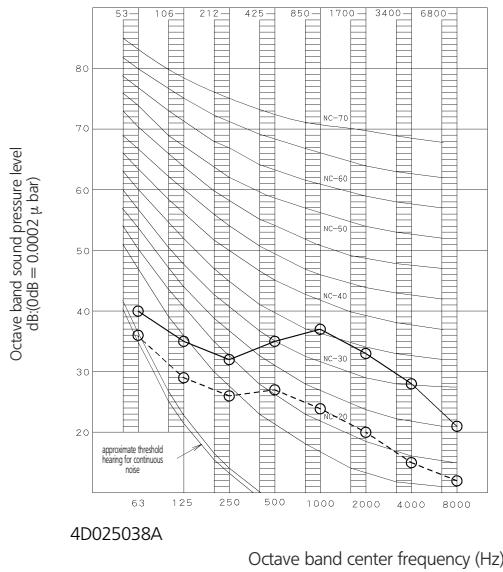
6-2 Sound pressure spectrum

6

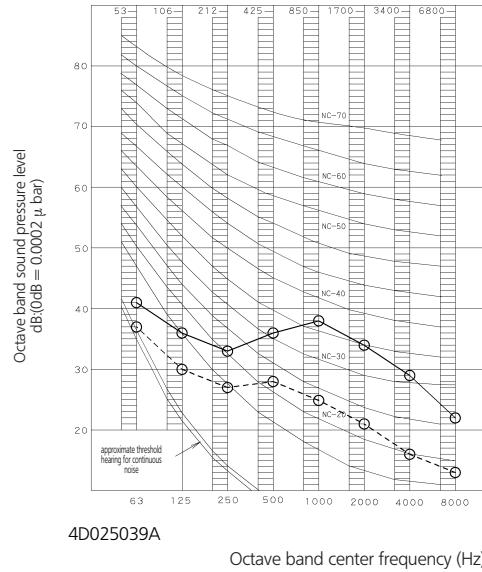
6-2

Cooling only

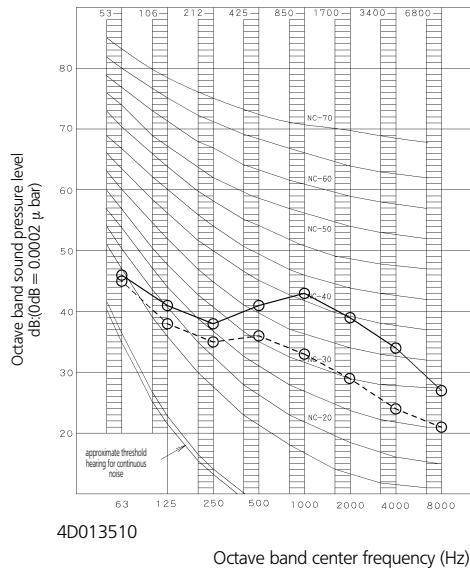
FTK25JAV1NB



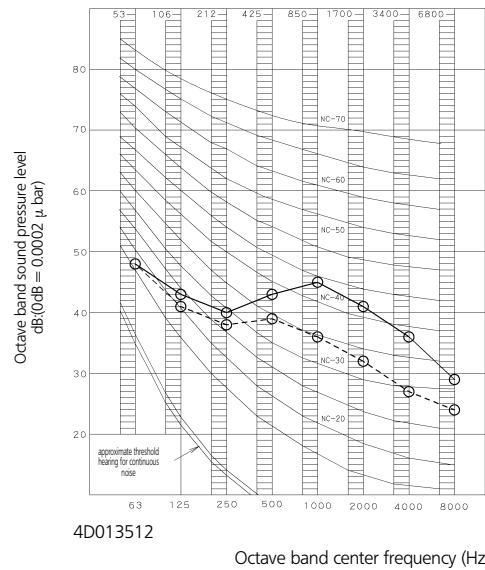
FTK35JAV1NB



FTK50HV1NB



FTK60HV1NB

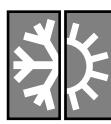


Legend

- 50Hz 230V(H)
- 50Hz 230V(L)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.



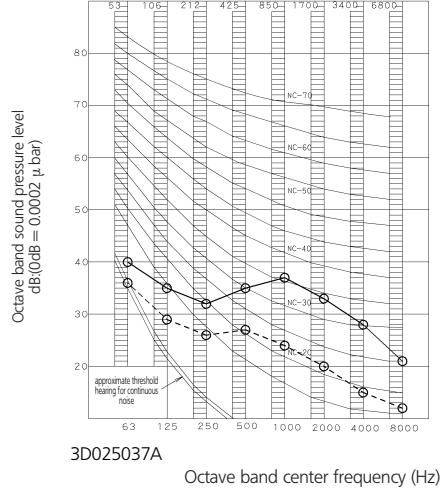
6 Sound level

6-2 Sound pressure spectrum

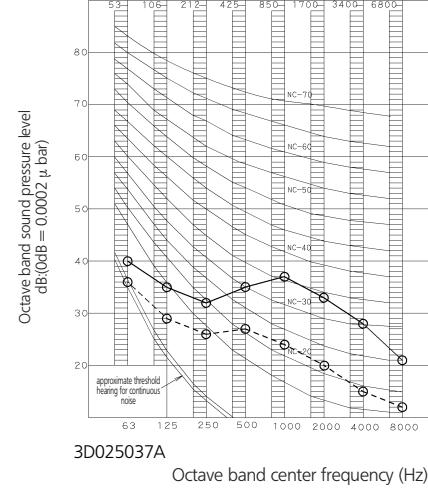
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6-2

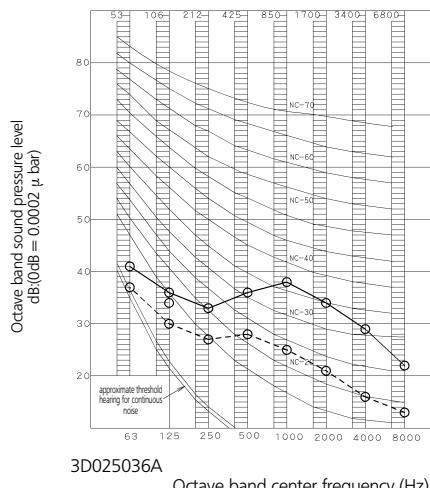
FTX25JAV1NB (Cooling)



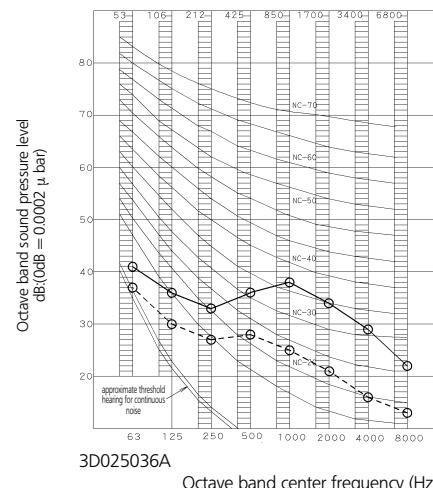
FTX25JAV1NB (Heating)



FTX35JAV1NB (Cooling)



FTX35JAV1NB (Heating)

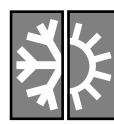


Legend

- 50Hz 230V(H)
- 50Hz 230V(L)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.



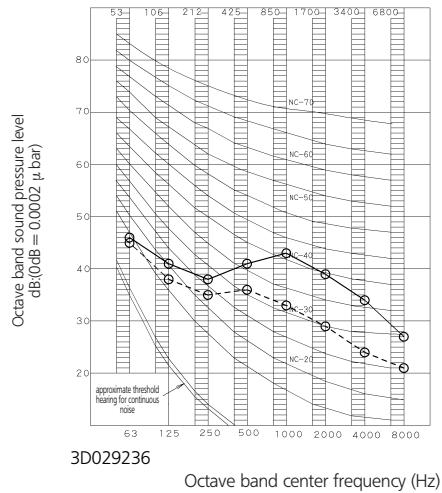
6 Sound level

6-2 Sound pressure spectrum

6

6-2

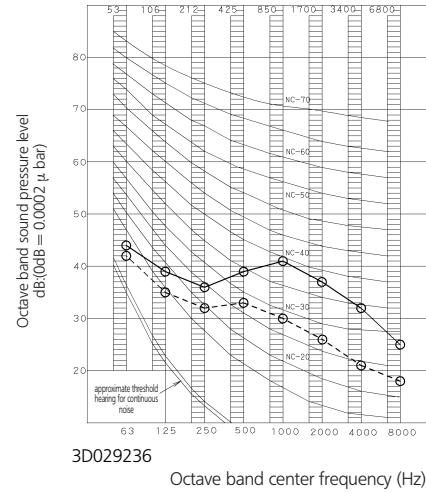
FTXD50JV1B (Cooling)



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Octave band center frequency (Hz)

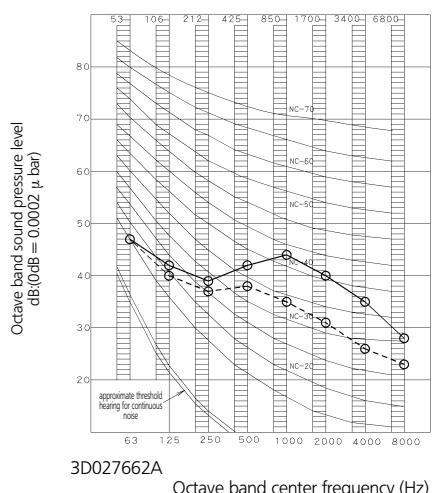
FTXD50JV1B (Heating)



3D029236

Octave band center frequency (Hz)

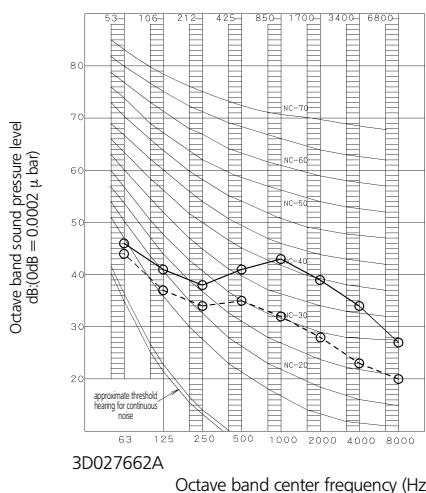
FTXD60JV1B (Cooling)



3D027662A

Octave band center frequency (Hz)

FTXD60JV1B (Heating)



3D027662A

Octave band center frequency (Hz)

Legend

- 50Hz 230V(H)
- 50Hz 230V(L)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.



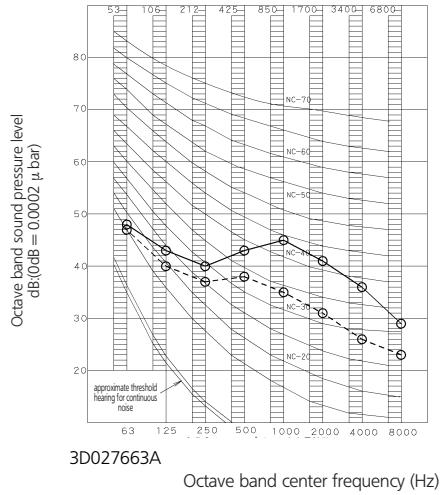
6 Sound level

6-2 Sound pressure spectrum

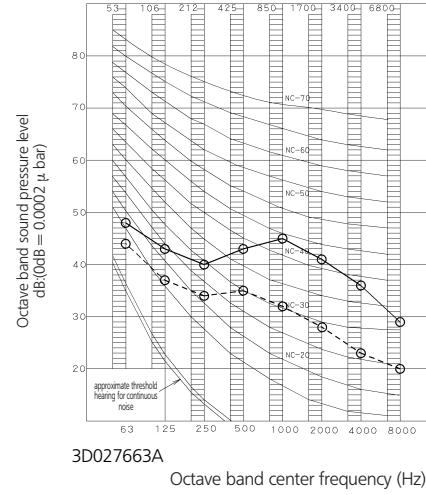
6

6-2

FTXD71JV1B (Cooling)



FTXD71JV1B (Heating)

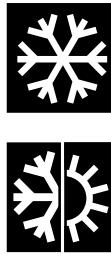


Legend

- 50Hz 230V(H)
- 50Hz 230V(L)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.

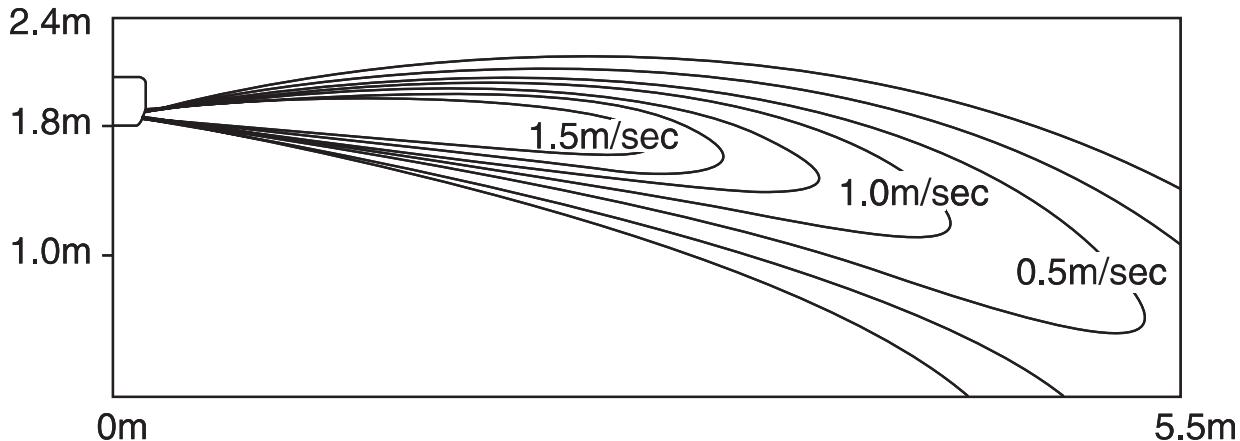


7 Air flow patterns

7

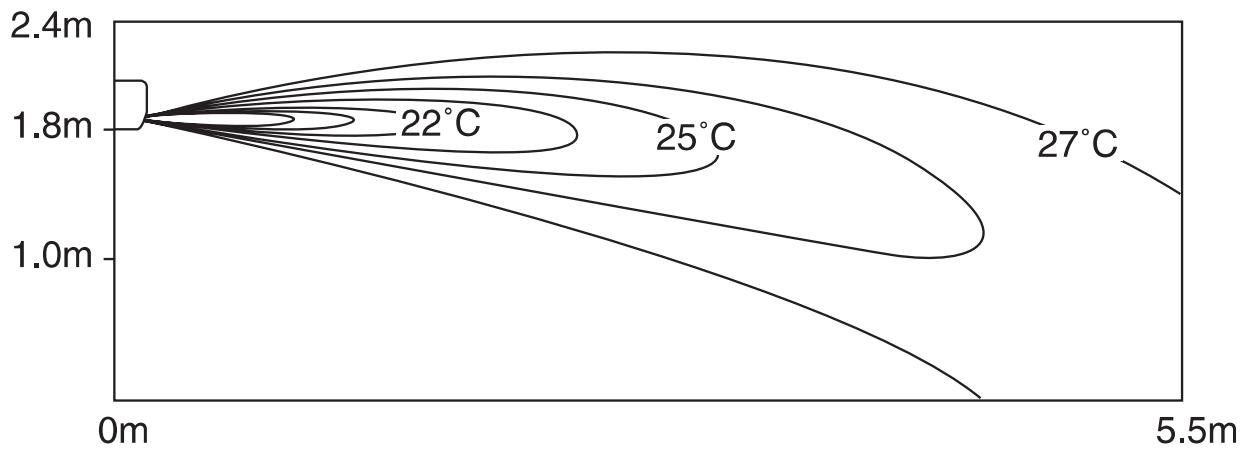
FTX35JA (Cooling Discharge Angle: 0°)

Cooling - air velocity distribution



FTX35JA (Heating Discharge Angle: 0°)

Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

Q0150

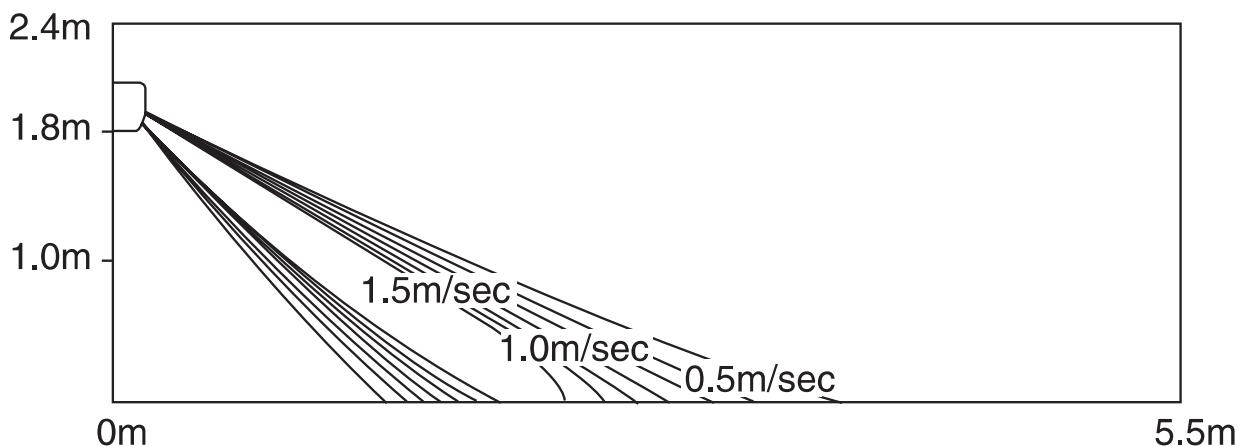


7 Air flow patterns

FTX35JA (Cooling Discharge Angle: 45°)

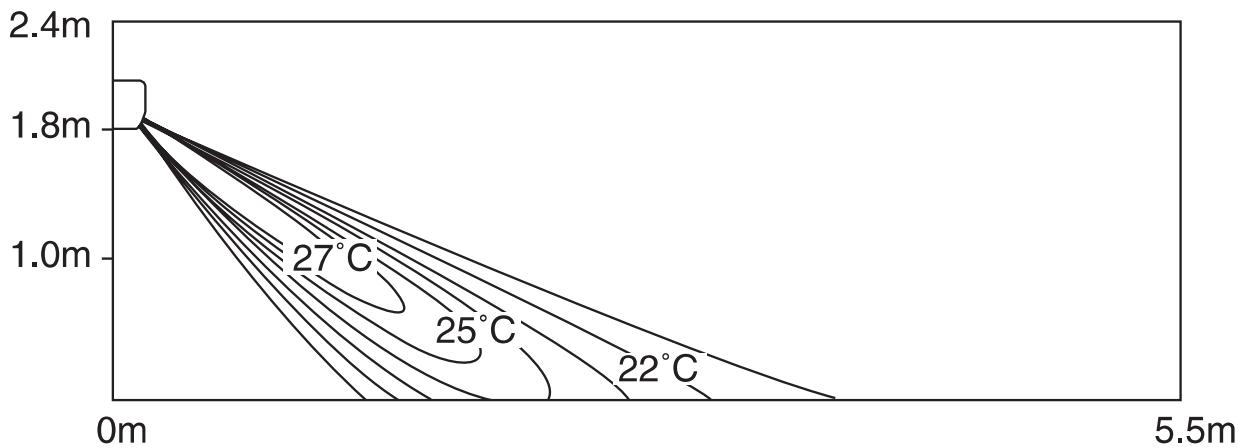
Cooling - air velocity distribution

7



FTX35JA (Heating Discharge Angle: 45°)

Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

Q0151

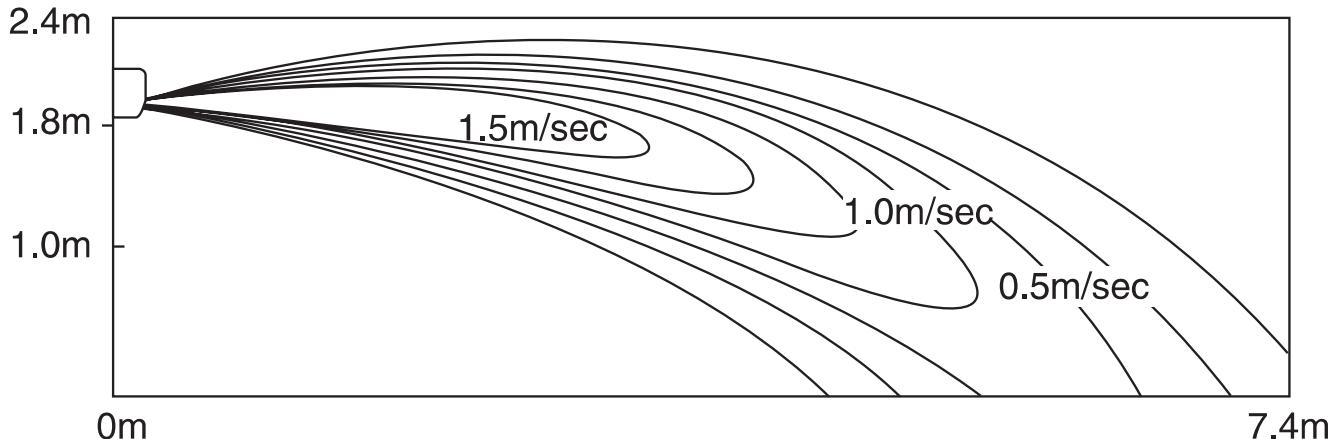


7 Air flow patterns

7

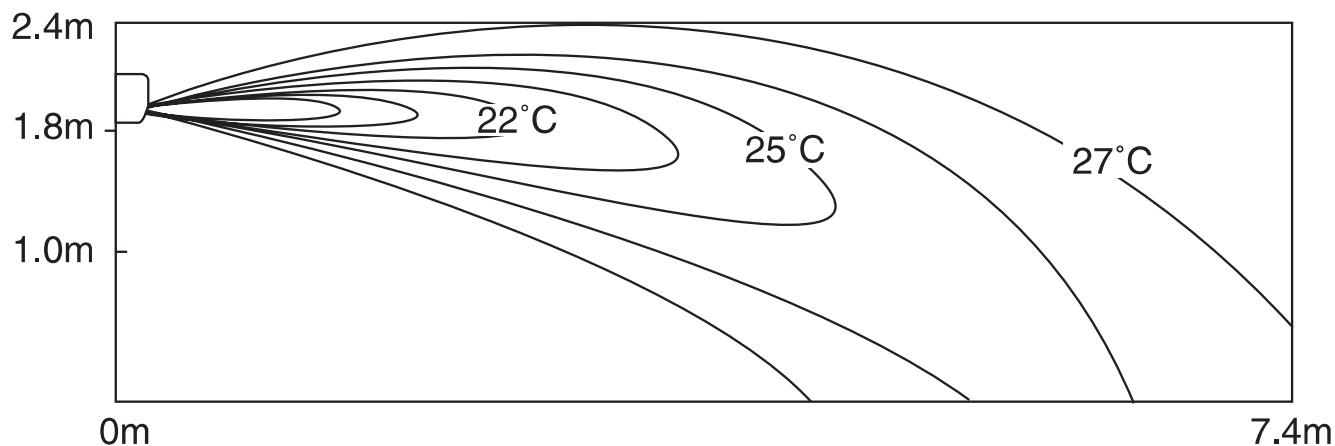
FTXD60J (Cooling Discharge Angle: 15°)

Cooling - air velocity distribution



FTXD60J (Heating Discharge Angle: 15°)

Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

Q0152

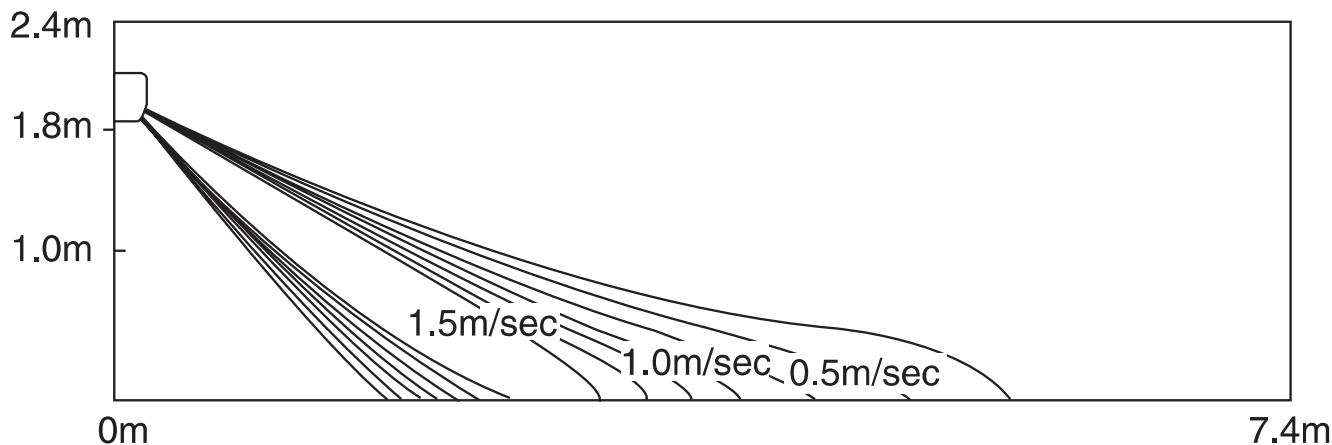


7 Air flow patterns

FTXD60J (Cooling Discharge Angle: 40°)

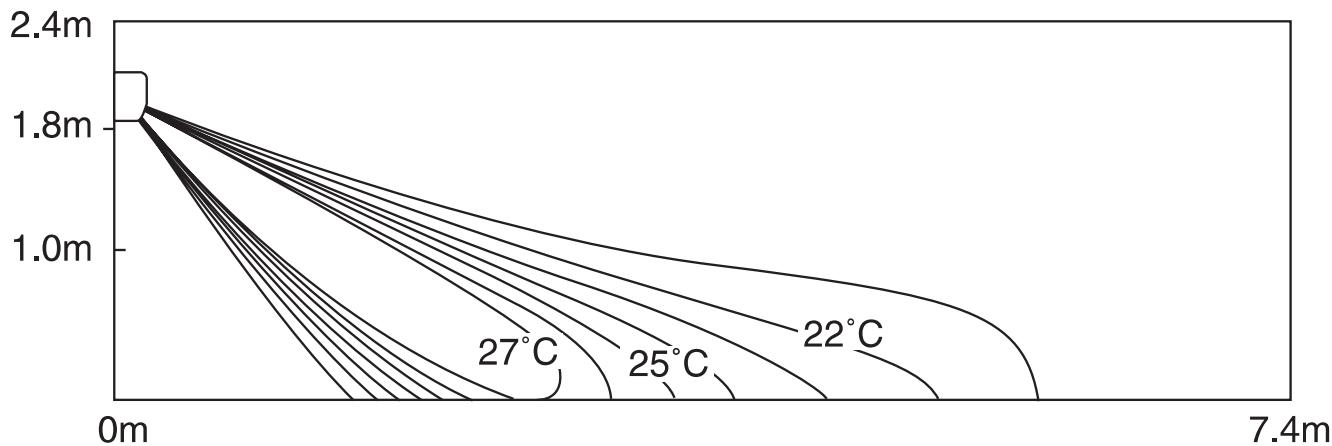
Cooling - air velocity distribution

7



FTXD60J (Heating Discharge Angle: 40°)

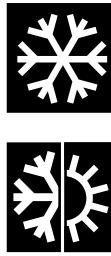
Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

Q0153



8 Accessories

8-1 Standard accessories

8
8-1

Ⓐ Mounting plate	1	Ⓔ Remote control holder ☒ 1	1	Ⓛ Insulation tape (25/35 class only)	1
Ⓑ Mounting plate fixing screw M4 x 25L	25/35 class	6	Ⓕ Fixing screw for remote control holder M3 x 20L	2	Ⓛ Operation manual
	50/60 class	10			
Ⓒ Air purification filter	2	Ⓖ AAA dry-cell batteries	2	Ⓛ Installation manual	1
Ⓓ Remote control	1	Ⓗ Indoor unit fixing screw M4x12	2	Ⓗ Drain socket (heat pump models only)	1

~~☒~~1 Remote control holder is available as standard accessory from serial no.

9900111 (FTK50HV1NB)

9900101 (FTK60HV1NB)

8-2 Optional accessories

FTK25-35JAV1NB
FTX25-35JAV1NB
FTK50-60HV1NB

	Option name	FTK/FTX25-35JA	FTK50-60H
1	Centralised control board-up to 5 rooms ☒ 1	KRC72	
2	Wiring adaptor for time clock/remote control ☒ 2 (normal open pulse contact/normal open contact)	KRP413A1S	
3	Air purification filter with frame	KAF918A41	
4	Air purification filter without frame	KAF918A42	
5	Anti-theft protection for remote control	KKF917A4	KKF910A4
6	Central remote control	DCS302B51	—
7	Unified ON/OFF control	DCS301B51	—
8	Schedule timer	DST301B51	—
9	Interface adapter for room air conditioners	KRP928A2S	—

3D020515B
3D013670

FTXD50-60-71J

	Option name	Kit name
1	Centralised control board-up to 5 rooms ☒ 1	KRC72
2	Wiring adaptor for time clock/remote control ☒ 2 (normal open pulse contact/normal open contact)	KRP413A1S
3	Central remote control	DCS302B51
4	Unified ON/OFF control	DCS301B51
5	Schedule timer	DST301B51
6	Interface adapter for room air conditioners	KRP928A2S
7	Air purification filter with frame	KAF918A41
8	Air purification filter without frame	KAF918A42
9	Anti-theft protection for remote control	KKF910A4

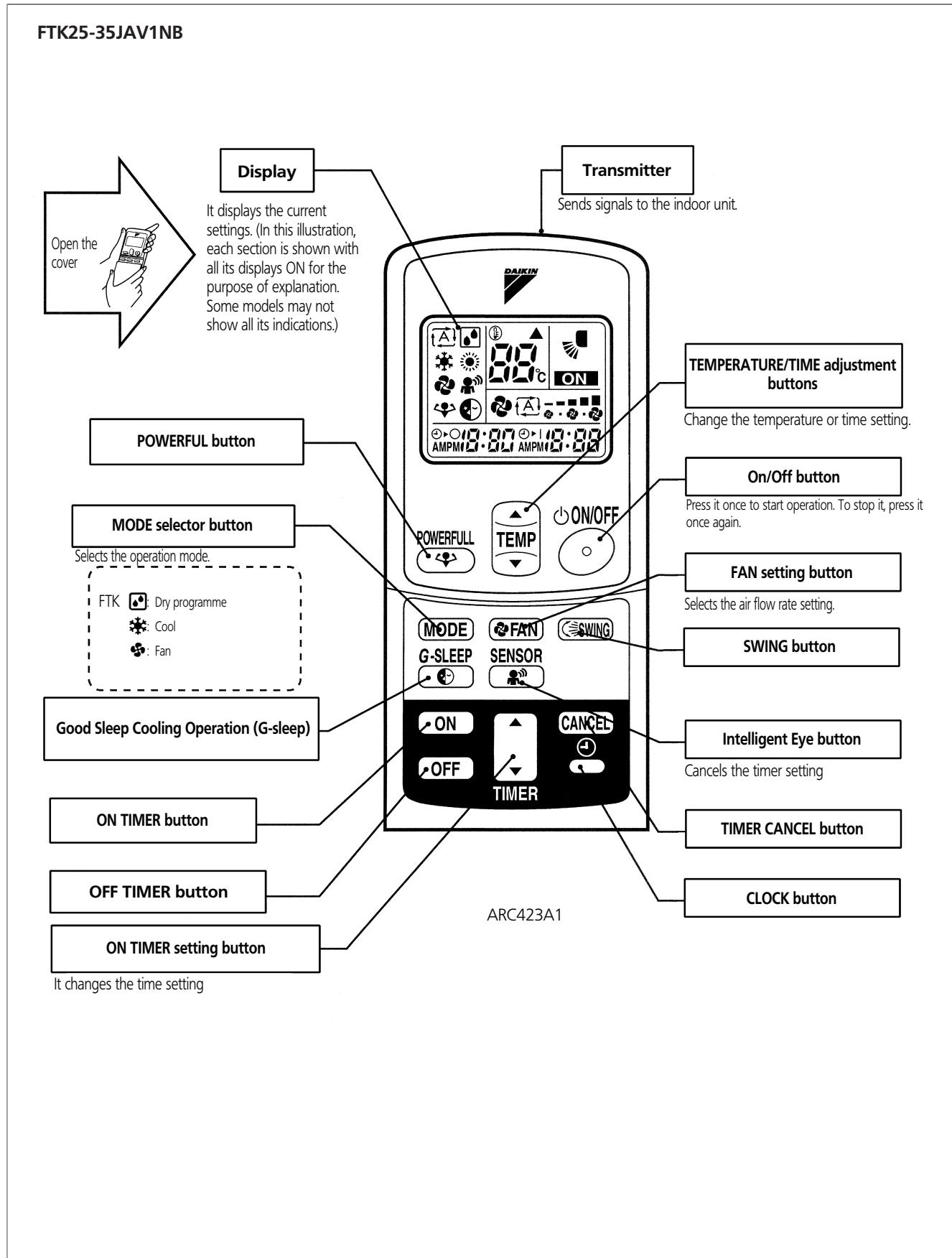
~~☒~~1 Wiring adapter is also required for each indoor unit.

~~☒~~2 Wiring adapter supplied by Daikin. Time clock and other devices: field supply.



9 Control systems

9-1 Infrared remote control





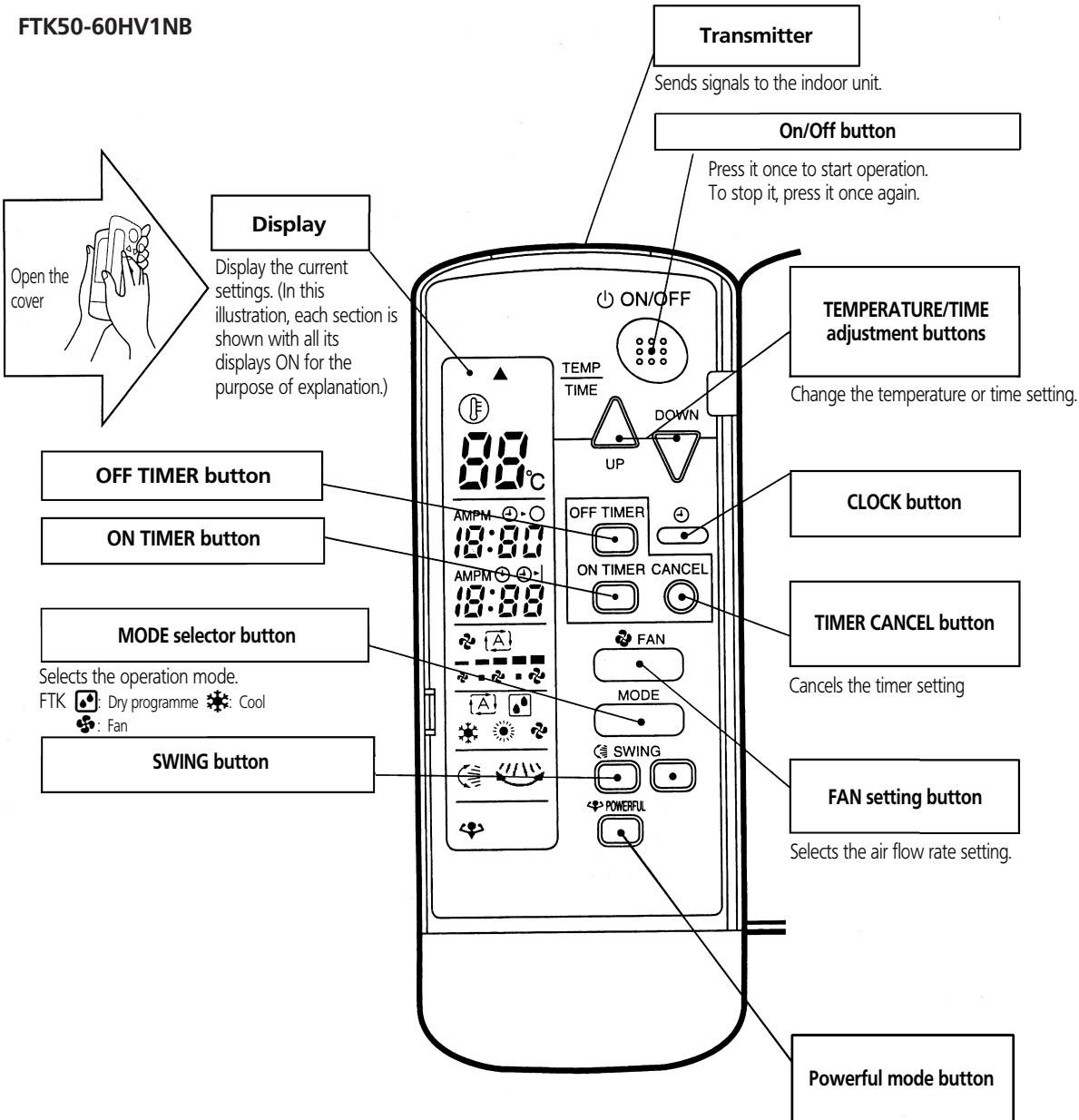
9 Control systems

9-1 Infrared remote control

9

9-1

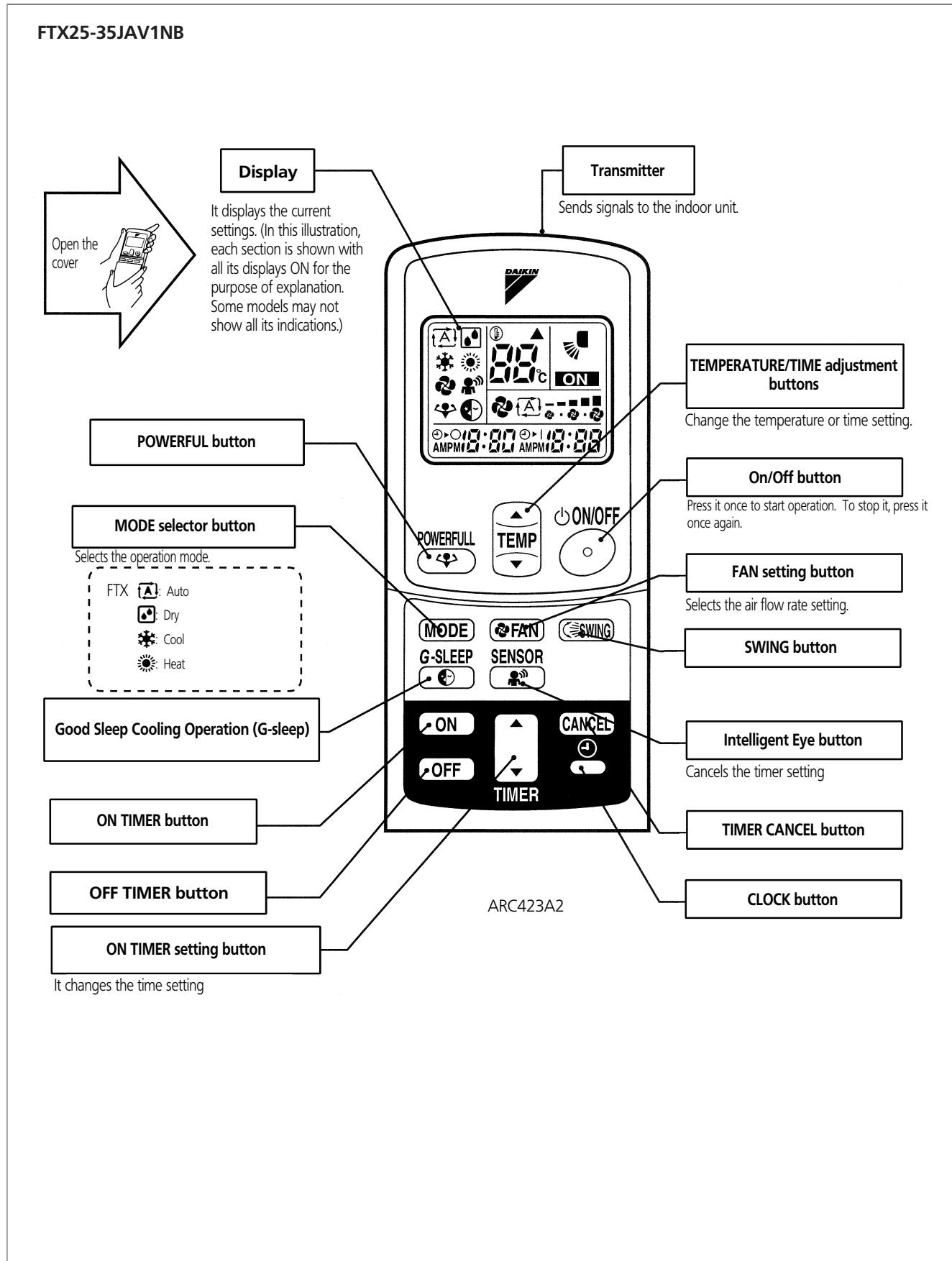
FTK50-60HV1NB





9 Control systems

9-1 Infrared remote control





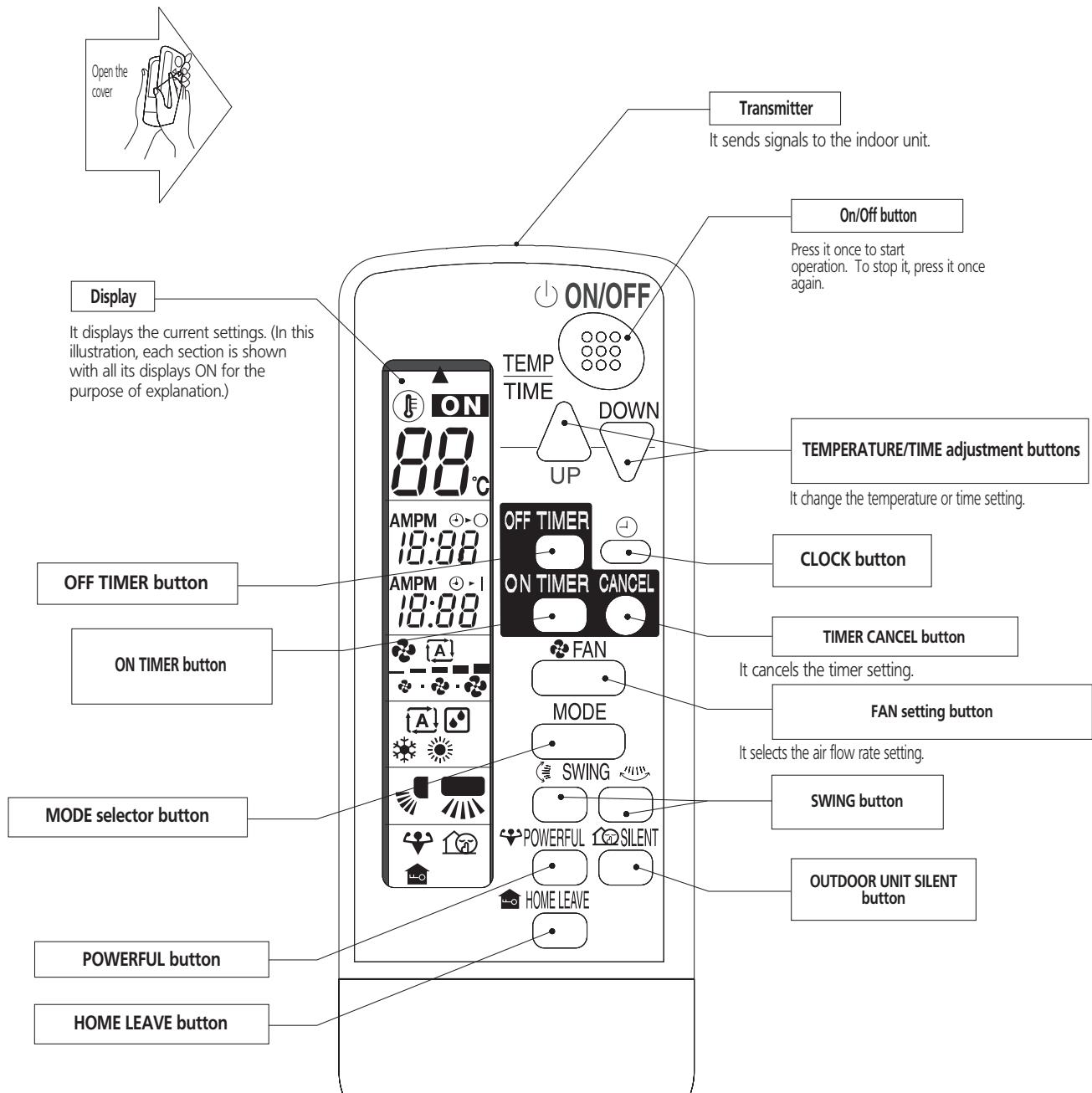
9 Control systems

9-1 Infrared remote control

FTXD50,60,71JV1B

9

9-1



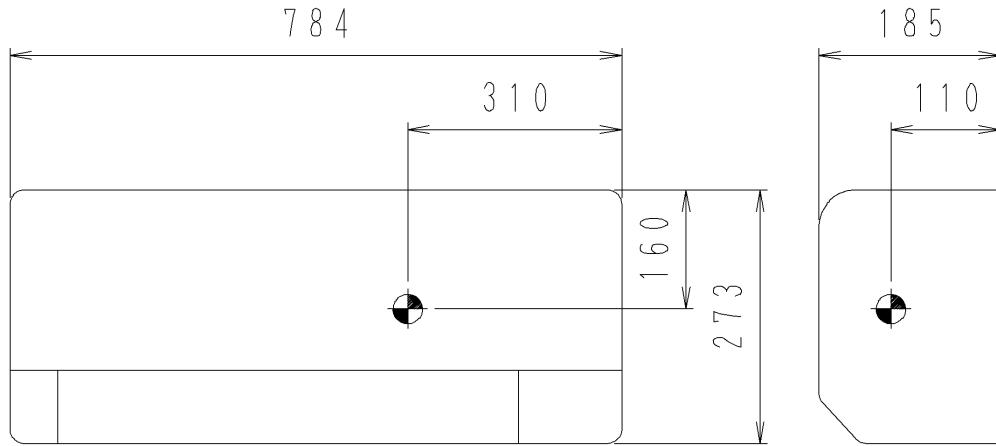
<ARC417 A14>



10 Centre of gravity

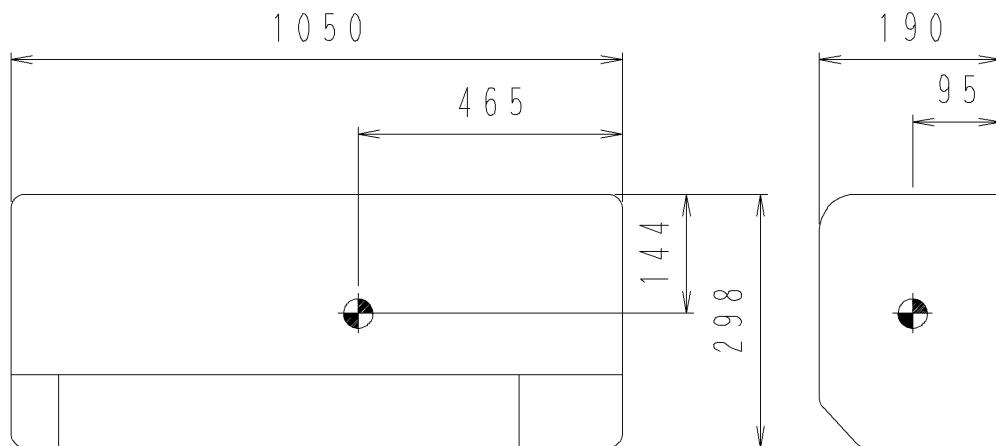
10

FTK25-35JAV1NB
FTX25-35JAV1NB



4D020686D

FTXD50-60-71JV1B



4D027652



11 Installation

Indoor/outdoor unit installation drawings

